

WHAT IS CLAIMED IS:

1. An electroconductive rubber roller whose outermost layer consists of a rubber layer made of a rubber composition containing an ionic-conductive rubber as a main component thereof,

5 wherein a surface of said rubber layer consists of an oxide film;
and said rubber composition contains a dielectric loss tangent-adjusting filler to set a dielectric loss tangent of said electroconductive rubber roller to 0.1 to 1.5.

2. The electroconductive rubber roller according to claim 1,
10 weak electroconductive carbon black and/or calcium carbonate treated with fatty acid are used as said dielectric loss tangent-adjusting filler.

3. The electroconductive rubber roller according to claim 1,
wherein supposing that an electric resistance of said electroconductive
15 rubber roller is R100 when a voltage of 100V is applied thereto and is R500 when a voltage of 500V is applied thereto, the following relationship establishes:

$$\log R_{100} - \log R_{500} < 0.5$$

4. The electroconductive rubber roller according to claim 2,
20 wherein supposing that an electric resistance of said electroconductive rubber roller is R100 when a voltage of 100V is applied thereto and is R500 when a voltage of 500V is applied thereto, the following relationship establishes:

$$\log R_{100} - \log R_{500} < 0.5$$

25 5. The electroconductive rubber roller according to claim 1,

wherein not less than 5 nor more than 70 parts by weight of said weak electroconductive carbon black is added to 100 parts by weight of said rubber component contained in said rubber composition.

6. The electroconductive rubber roller according to claim 2,
5 wherein not less than 5 nor more than 70 parts by weight of said weak electroconductive carbon black is added to 100 parts by weight of said rubber component contained in said rubber composition.

7. The electroconductive rubber roller according to claim 3,
wherein not less than 5 nor more than 70 parts by weight of said weak
10 electroconductive carbon black is added to 100 parts by weight of said rubber component contained in said rubber composition.

8. The electroconductive rubber roller according to claim 4,
wherein not less than 5 nor more than 70 parts by weight of said weak
electroconductive carbon black is added to 100 parts by weight of said
15 rubber component contained in said rubber composition.

9. The electroconductive rubber roller according to claim 1,
wherein not less than 30 nor more than 80 parts by weight of said calcium carbonate treated with said fatty acid is added to 100 parts by weight of said rubber component contained in said rubber composition.

20 10. The electroconductive rubber roller according to claim 2,
wherein not less than 30 nor more than 80 parts by weight of said calcium carbonate treated with said fatty acid is added to 100 parts by weight of said rubber component contained in said rubber composition.

11. The electroconductive rubber roller according to claim 3,
25 wherein not less than 30 nor more than 80 parts by weight of said calcium

carbonate treated with said fatty acid is added to 100 parts by weight of said rubber component contained in said rubber composition.

12. The electroconductive rubber roller according to claim 4, wherein not less than 30 nor more than 80 parts by weight of said calcium carbonate treated with said fatty acid is added to 100 parts by weight of said rubber component contained in said rubber composition.

13. The electroconductive rubber roller, according to claim 1, which is used as a development roller for making toner adhere to a photosensitive member of an image-forming mechanism of an electrophotographic apparatus.

14. The electroconductive rubber roller, according to claim 2, which is used as a development roller for making toner adhere to a photosensitive member of an image-forming mechanism of an electrophotographic apparatus.

15. The electroconductive rubber roller, according to claim 3, which is used as a development roller for making toner adhere to a photosensitive member of an image-forming mechanism of an electrophotographic apparatus.

16. The electroconductive rubber roller, according to claim 4, which is used as a development roller for making toner adhere to a photosensitive member of an image-forming mechanism of an electrophotographic apparatus.